



SEQUENCE LISTING

<110> HOOGENBOOM, HENDRICUS R.J.M.

<120> NOVEL FAB FRAGMENT LIBRARIES AND METHOD FOR THEIR USE

<130> DX/003 CON

<140> 09/988,899

<141> 2001-11-19

<150> PCT/US00/13682

<151> 2000-05-18

<150> 99201558.6

<151> 1999-05-18

<160> 71

<170> PatentIn Ver. 2.1

<210> 1

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Illustrative peptide

<400> 1

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn
1 5 10

<210> 2

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 2

cgatctaaag ttttgcgtc t

21

<210> 3

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 3

gtccttgacc aggcagccca gggc

24

<210> 4
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 4
 caggaaacag ctatgac

17

<210> 5
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: 6X-His tag

<400> 5
 His His His His His His
 1 5

<210> 6
 <211> 349
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polylinker of pCES1

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<400> 6
 tta ttc gca att cct tta gtt gtt cct ttc tat tct cac agt gca cag 48
 Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser His Ser Ala Gln
 1 5 10 15

gtc caa ctg cag gtc gac ctg gag atc aaa cgt gga act gtg gga gag 96
 Val Gln Leu Gln Val Asp Leu Glu Ile Lys Arg Gly Thr Val Gly Glu
 20 25 30

05

tgt taataaggcg cgccaattct atttcaagga gacagtcata atg aaa tac cta 151
Cys Met Lys Tyr Leu
35

ttg cct acg gca gcc gct gga ttg tta tta ctc gcg gcc cag ccg gcc 199
Leu Pro Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala Ala Gln Pro Ala
40 45 50

atg gcc cag gtg cag ctg cag gag agc ggg gtc acc gtc tca agc gcc 247
Met Ala Gln Val Gln Leu Gln Glu Ser Gly Val Thr Val Ser Ser Ala
55 60 65

tcc acc aaa tct tgt gcg gcc gca cat cat cat cat cat cac ggg gcc 295
Ser Thr Lys Ser Cys Ala Ala Ala His His His His His His Gly Ala
70 75 80 85

gca gaa caa aaa ctc atc tca gaa gag gat ctg aat ggg gcc gca tag 343
Ala Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Gly Ala Ala
90 95 100

act gtt 349
Thr Val

<210> 7
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 7
Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser His Ser Ala Gln
1 5 10 15

Val Gln Leu Gln Val Asp Leu Glu Ile Lys Arg Gly Thr Val Gly Glu
20 25 30

Cys

<210> 8
<211> 67
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 8
Met Lys Tyr Leu Leu Pro Thr Ala Ala Ala Gly Leu Leu Leu Ala
1 5 10 15

Ala Gln Pro Ala Met Ala Gln Val Gln Leu Gln Glu Ser Gly Val Thr
20 25 30

05

Val Ser Ser Ala Ser Thr Lys Ser Cys Ala Ala Ala His His His His
 35 40 45

His His Gly Ala Ala Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn
 50 55 60

Gly Ala Ala
 65

<210> 9
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 9
 tggaagaggc acgttctttt cttt

24

<210> 10
 <211> 24
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 10
 acactctccc ctgttgaagc tctt

24

<210> 11
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 11
 tgaacattct gtaggggcca ctg

23

<210> 12
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 12
 agagcattct gcaggggcca ctg

23

05

<210> 13
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 13
cagrtgcagc tgggtgcartc tgg 23

<210> 14
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<220>
<223> Description of Artificial Sequence: Primer

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saggtccagc tggtrcagtc tgg 23

<210> 15
<211> 23
<212> DNA
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<400> 15
cagrtcacct tgaaggagtc tgg 23

<210> 16
<211> 23
<212> DNA
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<220>
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<400> 16
saggtgcagc tgggtggagtc tgg 23

<210> 17
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
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<400> 17
gaggtgcagc tggaggagwc ygg

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<210> 18
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 18
caggtgcagc tacagcagtg ggg

23

<210> 19
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 19
cagstgcagc tgcaggagtc sgg

23

<210> 20
<211> 23
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<220>
<223> Description of Artificial Sequence: Primer

<400> 20
gargtgcagc tgggtgcagtc tgg

23

<210> 21
<211> 23
<212> DNA
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<220>
<223> Description of Artificial Sequence: Primer

<400> 21
caggtacagc tgcagcagtc agg

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<210> 22
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<220>

<223> Description of Artificial Sequence: Primer

<400> 22

gacatccagw tgacccagtc tcc

23

<210> 23

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 23

gatgttgatga tgactcagtc tcc

23

<210> 24

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 24

gaaattgtgw tgacrcagtc tcc

23

<210> 25

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 25

gatattgtga tgacccacac tcc

23

<210> 26

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 26

gaaacgacac tcacgcagtc tcc

23

<210> 27

<211> 23

<212> DNA

05

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 27

gaaattgtgc tgactcagtc tcc

23

<210> 28

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 28

cagtctgtgc tgactcagcc acc

23

<210> 29

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 29

cagtctgtgy tgacgcagcc gcc

23

<210> 30

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 30

cagtctgtcg tgacgcagcc gcc

23

<210> 31

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 31

cartctgccc tgactcagcc t

21

15

<210> 32
 <211> 23
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 32
 tcctatgwgcc tgactcagcc acc

23

<210> 33
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 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 33
 tcttctgagc tgactcagga ccc

23

<210> 34
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 34
 cacgttatcc tgactcaacc gcc

23

<210> 35
 <211> 23
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 35
 caggctgtgc tgactcagcc gtc

23

<210> 36
 <211> 23
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 36
 aattttatgc tgactcagcc cca

23

<210> 37
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 37
 cagrcctgtgg tgacycagga gcc

23

<210> 38
 <211> 23
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 38
 cwgcctgtgc tgactcagcc mcc

23

<210> 39
 <211> 51
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 39
 accgcctcca ccgggcgcgc cttattaaca ctctccctg ttgaagctct t

51

<210> 40
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 40
 accgcctcca ccgggcgcgc cttattatga acattctgta ggggccactg

50

<210> 41
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 41
accgcctcca ccgggcgcgc cttattaaga gcattctgca ggggccactg 50

<210> 42
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 42
gtcctcgcaa ctgcggccca gccggccatg gccagrtgc agctggtgca rtctgg 56

<210> 43
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 43
gtcctcgcaa ctgcggccca gccggccatg gccsaggtcc agctggtrca gtctgg 56

Q15
<210> 44
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 44
gtcctcgcaa ctgcggccca gccggccatg gccagrtca ccttgaagga gtctgg 56

<210> 45
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 45
gtcctcgcaa ctgcggccca gccggccatg gccsaggtgc agctggtgga gtctgg 56

<210> 46
<211> 56
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 46

gtcctcgcaa ctgcgggccca gccggccatg gccgaggtgc agctggtgga gwcyyg 56

<210> 47

<211> 56

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 47

gtcctcgcaa ctgcgggccca gccggccatg gccaggtgc agctacagca gtgggg 56

<210> 48

<211> 56

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 48

gtcctcgcaa ctgcgggccca gccggccatg gccagstgc agctgcagga gtcsgg 56

<210> 49

<211> 56

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 49

gtcctcgcaa ctgcgggccca gccggccatg gccgargtgc agctggtgca gtctgg 56

<210> 50

<211> 56

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 50

gtcctcgcaa ctgcgggccca gccggccatg gccaggtac agctgcagca gtcagg 56

<210> 51

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 51

tgaggagacg gtgaccaggg tgcc

24

<210> 52

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 52

tgaagagacg gtgaccattg tccc

24

<210> 53

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 53

tgaggagacg gtgaccaggg ttcc

24

<210> 54

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 54

tgaggagacg gtgaccgtgg tccc

24

<210> 55

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 55

accgcctcca ccagtgcact tgacatccag wtgacccagt ctcc

44

05

<210> 56
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 56
accgcctcca ccagtgcact tgatgttgatg atgactcagt ctcc 44

<210> 57
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 57
accgcctcca ccagtgcact tgaaattgtg wtgacrcagt ctcc 44

<210> 58
<211> 44
<212> DNA
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<220>
<223> Description of Artificial Sequence: Primer

<400> 58
accgcctcca ccagtgcact tgatattgtg atgacccaca ctcc 44

<210> 59
<211> 44
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<220>
<223> Description of Artificial Sequence: Primer

<400> 59
accgcctcca ccagtgcact tgaaacgaca ctcacgcagt ctcc 44

<210> 60
<211> 44
<212> DNA
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<223> Description of Artificial Sequence: Primer

<400> 60
accgcctcca ccagtgcact tgaaattgtg ctgactcagt ctcc 44

<210> 61
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 61
 accgcctcca ccagtcaca gtctgtgctg actcagccac c

41

<210> 62
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 62
 accgcctcca ccagtcaca gtctgtgytg acgcagccgc c

41

05
 <210> 63
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 63
 accgcctcca ccagtcaca gtctgtcgtg acgcagccgc c

41

<210> 64
 <211> 39
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 64
 accgcctcca ccagtcaca rtctgccctg actcagcct

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<210> 65
 <211> 44
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 65
accgcctcca ccagtgcaact ttcttatgwg ctgactcagc cacc

44

<210> 66
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 66
accgcctcca ccagtgcaact ttctttctgag ctgactcagg accc

44

<210> 67
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 67
accgcctcca ccagtgcaaca cgttatactg actcaaccgc c

41

Q5
<210> 68
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 68
accgcctcca ccagtgcaaca ggctgtgctg actcagccgt c

41

<210> 69
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 69
accgcctcca ccagtgcaact taattttatg ctgactcagc ccca

44

<210> 70
<211> 41
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 70

accgcctcca ccagtcaca grctgtggtg acycaggagc c

41

<210> 71

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 71

accgcctcca ccagtcacw gcctgtgctg actcagccmc c

41

05
0501